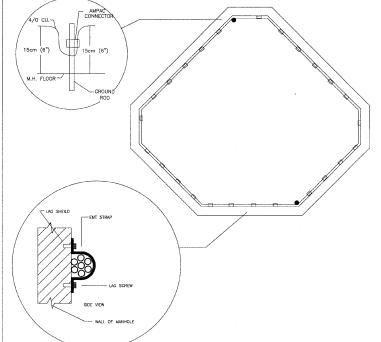


- 1. KEEP 4/0 CU IN ONE PIECE AROUND INNER WALL; TIE TOGETHER WITH ONE AMPAC.
- 4/O IS SUPPORTED ALONG INNER WALL OF M.H., 15cm (6") ABOVE M.H. FLOOR, AT (2 FOOT) INTERVALS.
 2. COPPER STRAP AND LEAD ANCHOR SHALL BE INSTALL AT 60cm (TWO FOOT) INTERVALS.
- THE TWO KNOCKOUTS IN THE FLOOR SHOULD BE USED. IF SOLID ROCK IS ENCOUNTED UNDER
- THE MANHOLE, REFER TO ENGINEERING.
- 4. TWO 1.5 METER (5") GROUND RODS AND ONE COUPLING SHOULD BE INSTALLED WITH A DRIVING STUD PER KNOCKOUT.

CODE QTY DESCRIPTION UGMH 1 GROUNDING MANHOLE	ASSEMB	Y CODE	S	
UGMH 1 GROUNDING MANHOLE	CODE	QTY	DESCRIPTION	
	UGMH	1	GROUNDING	MANHOLE

NAPERVILLE PUBLIC	GROUNDING DETAIL	DATE: 03-17-04
UTILITIES DEPARTMENT		
ELECTRIC STANDARDS	TYPE "E" MANHOLE	C30-1160



JGMH: GROUNDING	MPH TOLL		UGMH	UGMHG	UGMHR
item Code	Description 1	Description 2	Qty	Qty	Qty
280 107 00070	CU BARE SD	4/0 7-STR	40	40	
283 156 00030	GROUND ROD, COPPER CLAD	5/8" X 5' USE 10 FOOTER	. 4		4
283 156 00040	COUPLING, BRONZE	5/8" ROD	2	T	2
284 199 00460	LAG SHIELD, LEAD SHORT	1/4"	26	T	T
284 199 00470	LAG SCREW, SS	1/4" X 1"	2.6	26	
285 199 00200	STRAP, EMT	1/2" SS	26	26	1
286 100 00260	CONNECTOR, WEDGE CU	4/0 STR(7) ~ 4/0 STR(7)	1	1 1	1
286 100 00320	CONNECTOR, WEDGE CU	4/0 STR(7) - 5/8" ROD	2	2	T
286 101 00010	SHELL, WEDGE AMP	WHITE	3	3	

- 1. KEEP 4/0 CU IN ONE PIECE AROUND INNER WALL; TIE TOGETHER WITH ONE AMPAC.
- 4/0 IS SUPPORTED ALONG INNER WALL OF M.H., 15cm (6") ABOVE M.H. FLOOR, AT (2 FOOT) INTERVALS.
- 2. COPPER STRAP AND LEAD ANCHOR SHALL BE INSTALL AT 60cm (TWO FOOT) INTERVALS.
- 3. THE TWO KNOCKOUTS IN THE FLOOR SHOULD BE USED. IF SOLID ROCK IS ENCOUNTED UNDER
- THE MANHOLE, REFER TO ENGINEERING.
- 4. TWO 1.5 METER (5') GROUND RODS AND ONE COUPLING SHOULD BE INSTALLED WITH A DRIVING STUD PER KNOCKOUT.

ASSEMB	LY COD	ES	
CODE	QTY	DESCRIPTION	
UGMH		GROUNDING	MANHOLE

NAPERVILLE PUBLIC		DATE: 03-17-04
UTILITIES DEPARTMENT	GROUNDING DETAIL TYPE "G" MANHOLE	
ELECTRIC STANDARDS	TIPL G MANTIOEL	C30-1170

F.A. RTE.	SECTIO	N	COUNTY TO SHI		TOTAL SHEETS	SHEET NO.
3570	00-00116-	-00-BR DUPAGE /06		106	68	
STA. 4+	38.47	ТО	STA.	14+	62.4	
FED. ROAD	DIST. NO.	ILLINOIS	FED.	AID	PROJEC*	Γ
CONTRACT	83827					A 10.00 A 10.00 A 10.00 A 10.00

NOTES:

- 1) ALL MANHOLES SHALL BE INSTALLED AND GROUNDS INSTALLED AND GROUND RODS TESTED IMMEDIATELY.
- 2) IF TESTING INDICATES A GROUND RESISTANCE MORE THAN 25 OHMS ADDITIONAL RODS NEED TO BE ADDED OR COUNTER POISE INSTALLED.
- 3) THE COUNTER POISE IF REQUIRED, WILL BE INSTALLED IN THE IRENCH WHEN THE DUCT IS INSTALLED, INSTALL 4/0 BARE 7.—STRAND COPPER WIRE THRU THE 2—KNOCKOUTS IN WALL. TRAIN AROUND MANHOLE TO DUCT RUNS AND INSTALL 200 FEET OF COUNTER POISE IN TWO DIRECTIONS FROM MANHOLE ABOVE DUCT AND BEFORE BACK FILLING.
- 4) CONTRACTOR IS ADVISED IF THE DUCT IS INSTALLED PRIOR TO MANHOLE WORK. THE CONTRACTOR SHALL TEST SOIL RESISTANCE AT MANHOLE LOCATION PRIOR TO INSTALLING DUCT.
- 5) AFTER COUNTER POISE IS INSTALLED GROUNDS SHALL BE RETESTED AND FINDINGS GIVEN TO THE CITY.

	CIT	OF	NAPE	RVILLE	/DEPARTMENT	OF PUBLIC	UTILITIES – EI	LECTRIC	
			CALL	J.U.L.	.I.E. 48 HRS.	PRIOR TO CO	INSTRUCTION		
PROJECT TO JEF		A NC	/. BRI	DGE	DUCTBANK IN	STALLATION	MAP NO.:	CAD FILE: 0054679001D13.DWG	
PROJECT DESCRIPTION MANHOLE DETAILS					DETAILS		DRAWN BY: JK, PM	PROJECT NO.: EU13-04-06	
DATE	4-01 09				WORK REQUEST NO.	CHKD:	SBC:	COMPLETED BY:	
ISSUED					54679				
ENGINEER	PSM				0,0,0	APRV:	SCALE : NTS	SHEET 13 OF 30	
REVISION		1	2	3			1412	STEET TO OF SO	